FIGURE 1

```
          10             20        |        30             40             50
          |              |         ↓        |              |              |
MKIMMMIKLCFFSMSLICIAPADAQTEGVVFGYKGKNGPNQWGHLNPHFT
TCAVGKLQSPIDIQRRQIFYNHKLNSIHREYYFTNATLVNHVCNVAMFFG
EGAGDVIIENKNYTLLQMHWHTPSEHHLHGVQYAAELHMVHQAKDGSFAV
VASLFKIGTEEPFLSQMKEKLVKLKEERLKGNHTAQVEVGRIDTRHIERK
TRKYYRYIGSLTTPPCSENVSWTILGKVRSMSKEQVELLRSPLDTSFKNN
SRPCQPLNGRRVEMFHDHERVDKKETGNKKKKPN
```

FIGURE 2

```
   1 atgcagtaat ctgataaaac cctccacaga gatttccaac aaaacaggaa ctaaaacaca
  61 agatgaagat tatgatgatg attaagctct gcttcttctc catgtccctc atctgcattg
 121 cacctgcaga tgctcagaca gaaggagtag tgtttggata taaaggcaaa aatggaccaa
 181 accaatgggg acacttaaac cctcacttca ccacatgcgc ggtcggtaaa ttgcaatctc
 241 caattgatat tcaaaggagg caaatatttt acaaccacaa attgaattca atacaccgtg
 301 aatactactt cacaaacgca acactagtga accacgtctg taatgttgcc atgttcttcg
 361 gggagggagc aggagatgtg ataatagaaa acaagaacta taccttactg caaatgcatt
 421 ggcacactcc ttctgaacat cacctccatg gagtccaata tgcagctgag ctgcacatgg
 481 tacaccaagc aaaagatgga agctttgctg tggtggcaag tctcttcaaa atcggcactg
 541 aagagccttt cctctctcag atgaaggaga aattggtgaa gctaaaggaa gagagactca
 601 aagggaacca cacagcacaa gtggaagtag gaagaatcga cacaagacac attgaacgta
 661 agactcgaaa gtactacaga tacattggtt cactcactac tcctccttgc tccgagaacg
 721 tttcttggac catccttggc aaggtgaggt caatgtcaaa ggaacaagta gaactactca
 781 gatctccatt ggacacttct ttcaagaaca attcaagacc gtgtcaaccc ctcaacggcc
 841 ggagagttga gatgttccac gaccacgagc gtgtcgataa aaaagaaacc ggtaacaaaa
 901 agaaaaaacc caattaaaat agttttacat tgtctattgg tttgtttaga accctaatta
 961 gctttgtaaa actaataatc tcttatgtag tactgtgttg ttgtttacga cttgatatac
1021 gatttccaaa aaaaaaaaaa aaaaaa
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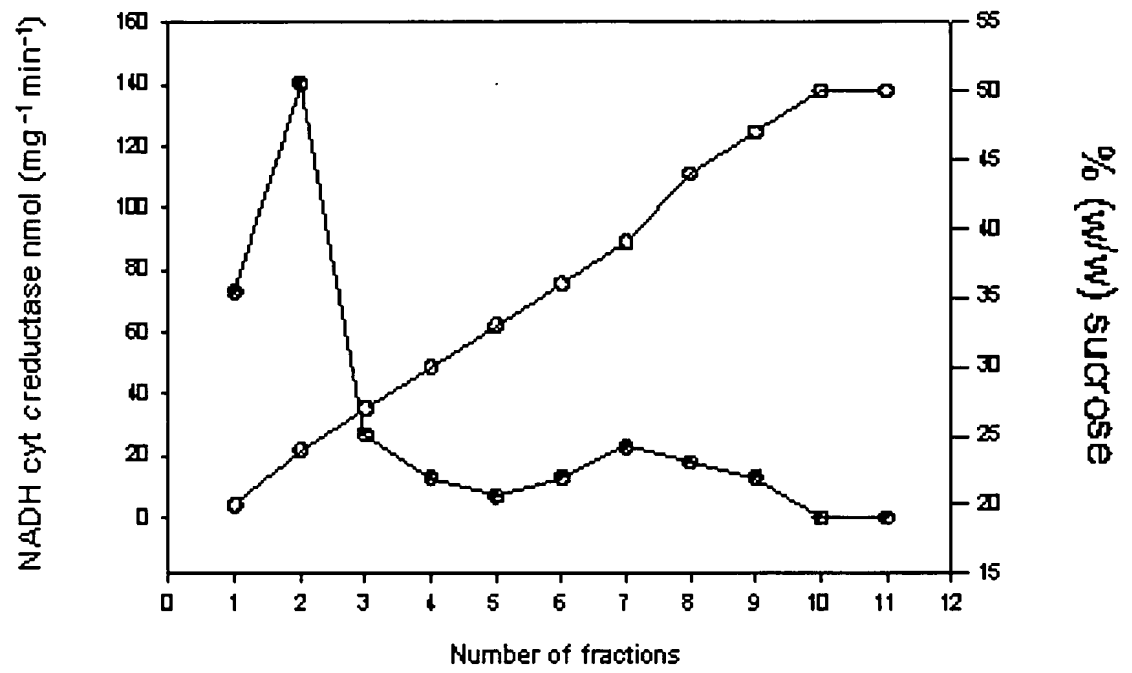
FIGURE 3

FIGURE 4

(1-40)CAH1-GFP

(1-103)CAH1-GFP

(1-40)CAH1-GFP-(224-284)CAH1

CaMV35S promoter

sGFP

nos3'

MKIMMMIKLCFFSMSLICIAPADAQTEGVVFGYKGKNGPNQWGHLNPHFTTCAVGKLQSPIDIQRRQIFYNHKLNSIHREYYFTNATLVNHVCNVAMFFG
EGAGDVIIENKNYTLLQMHWHTPSEHHLHGVQYAAELHMVHQAKDGSFAVVASLFKIGTEEPFLSQMKEKLVKLKEERLKGNHTAQVEVGRIDTRHIERK
TRKYYRYIGSLTTPPCSENVSWTILGKVRSMSKEQVELLRSPLDTSFKNNSRPCQPLNGRRVEMFHDHERVDKKETGNKKKKPN

| SP | PTPN | PTPC |